PREREQUISITES

To complete this project you should have the following software and packages.

Anaconda Navigator :

Anaconda Navigator is a free and open- source distribution of the python and R programming languages for data science and machine learning related applications. It can be installed on windows , Linux, and Mac OS. Conda is an open- source, cross- platform, package management system. Anaconda comes with so very nice tools like JupyterLab, Jupyter Notebook, Qtconsole , Spyder, Glueviz, Orange, RStudio, Visual studio code.For this project, we will be using Jupiter notebook and Spyder.

To install Anaconda Navigator and to know how to use Jupiter notebook a Spyder using Anaconda.

Tensor flow:

Tensor flow is an end-to-end open- source platform for machine learning. It has a comprehensive, flexible ecosystem of tools, libraries, and community resources that lets researchers push the state-of-the-art in ML and developers can easily build and deploy ML powered applications.

Keras :

Keras leverages various optimization techniques to take high level neural network API easier and more performant. It supports the following features:

- Consistent, simple and extensible API.
- Minimal structure – easy to achieve the result without any frills.
- It supports multiple platforms and backends.
- It is user friendly framework which runs on both CPU and GPU.
- Highly scalability of computation.

Flask :

Web framework used for building web applications.